

5750338

FIG. 1a

CELLS
WITHIN
CLINICAL
SAMPLE



TARGET DNA

STEP 1

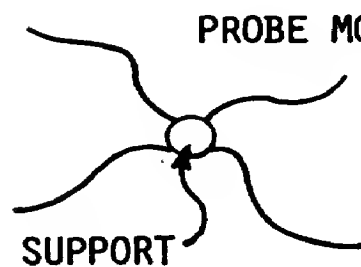
SOLUBLIZING AGENTS
& DENATURATION
OF NUCLEIC ACID

SAMPLE NUCLEIC ACID & CELLULAR DEBRI & IMPURITIES

STEP 2

RETRIEVABLE SUPPORT
WITH PROBE MOIETY

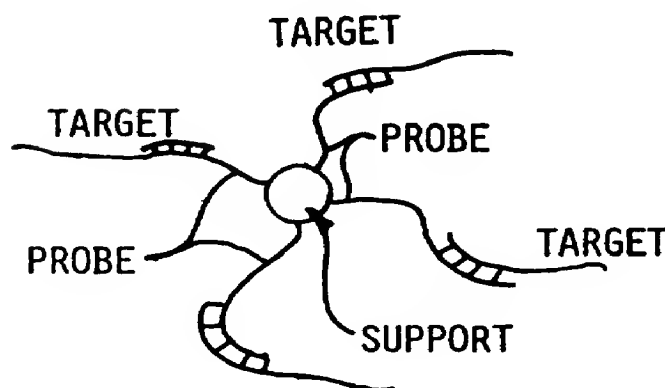
SAMPLE
NUCLEIC ACID +



+ CELLULAR DEBRIS
+ IMPURITIES

STEP 3

BINDING CONDITIONS

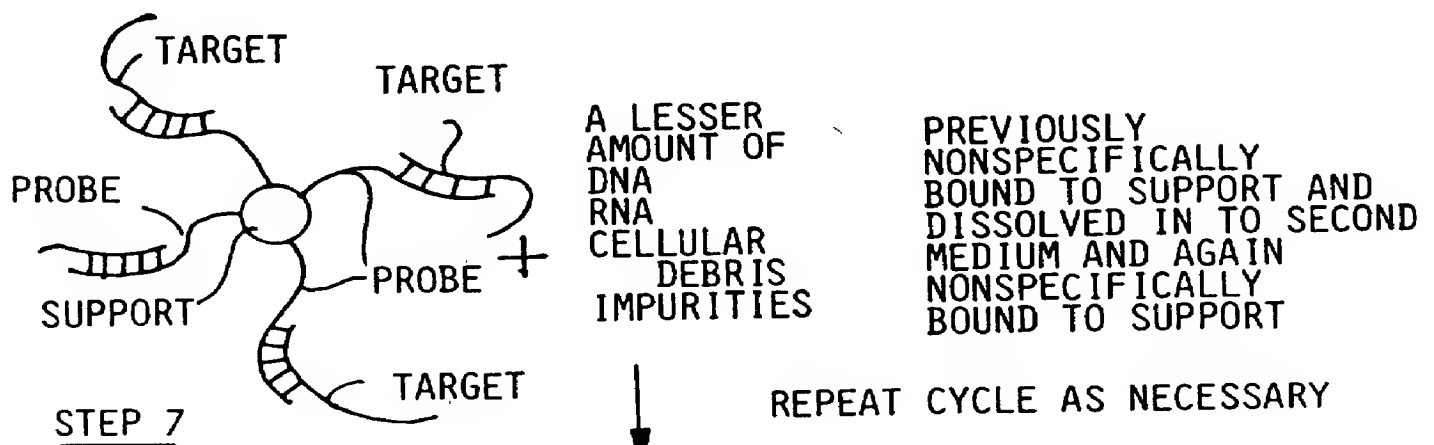
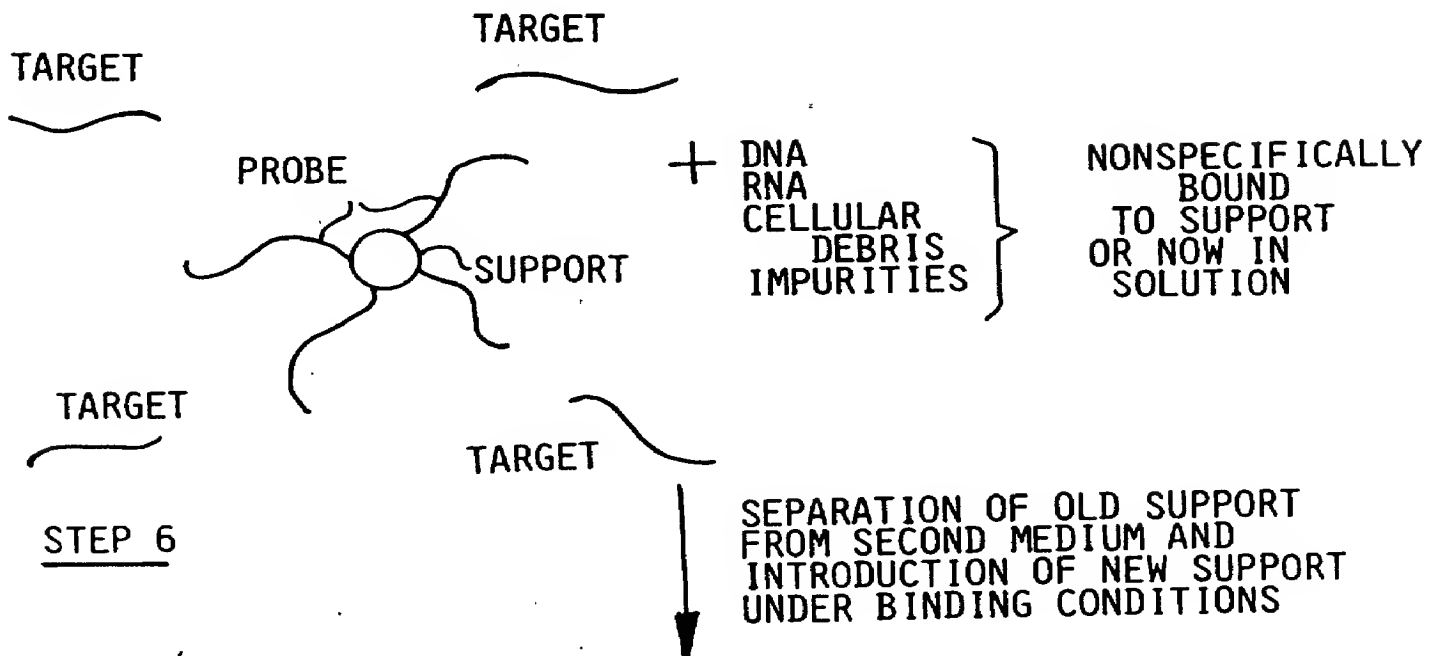
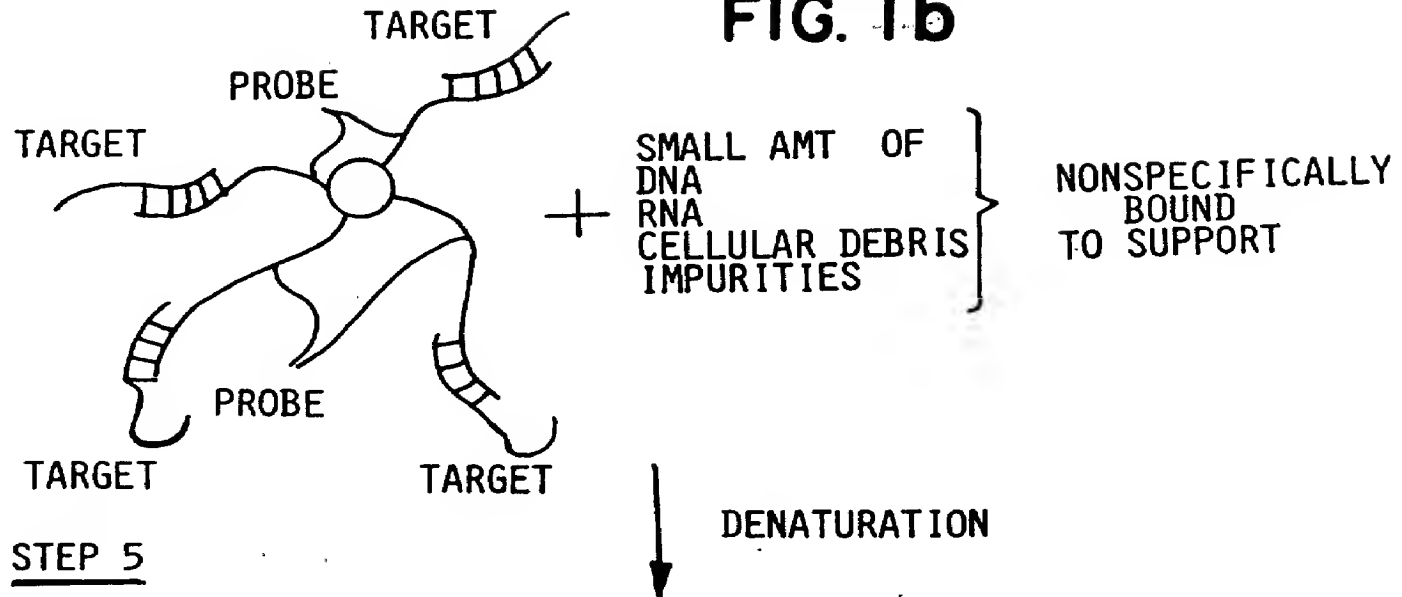


+
LARGE AMOUNT OF
DNA
RNA
CELLULAR DEBRIS
IMPURITIES

STEP 4

06238030-050394

FIG. 1b



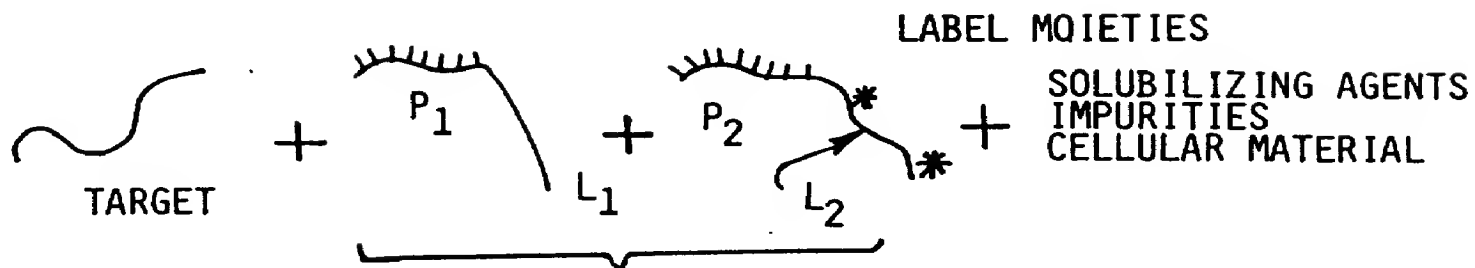
050394-000000-000000

FIG. 2a

CLINICAL SAMPLE

SOLUBILIZING AGENTS
AND REAGENT

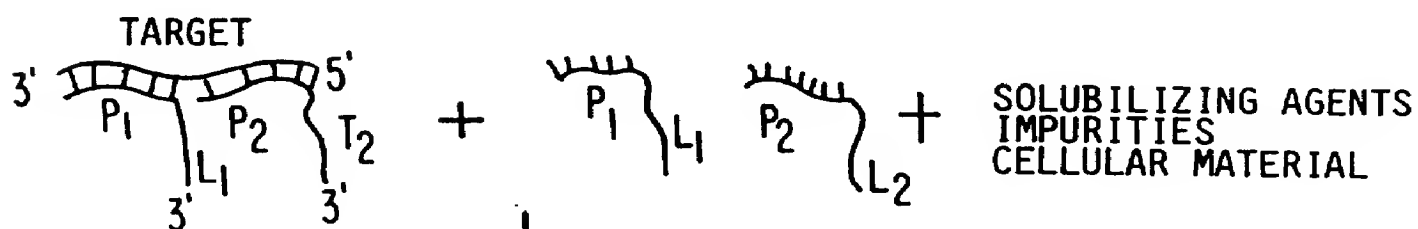
STEP 1



REAGENT

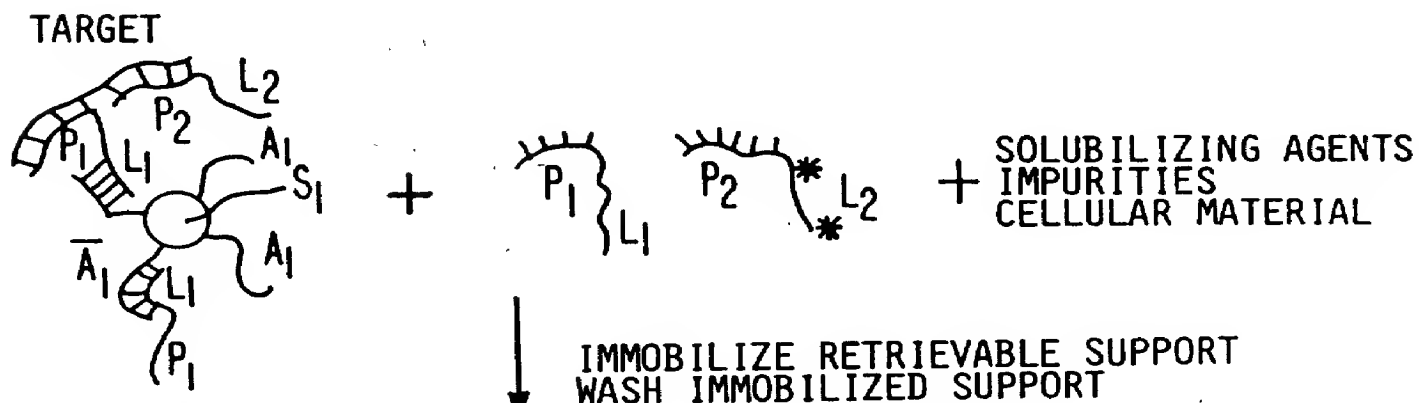
BINDING CONDITIONS

STEP 2



RETRIEVABLE SUPPORT WITH
A₁ MOIETY UNDER BINDING CONDITIONS

STEP 3

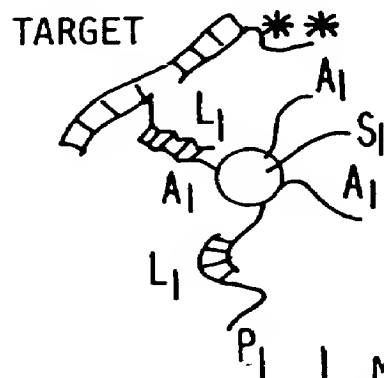


IMMOBILIZE RETRIEVABLE SUPPORT
WASH IMMOBILIZED SUPPORT

STEP 4

08238080-050394

FIG. 2b

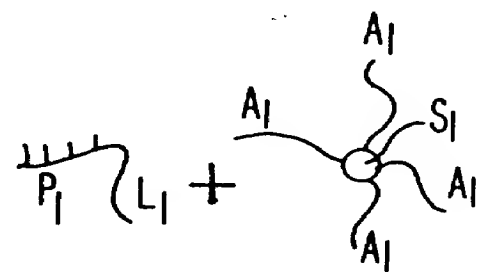
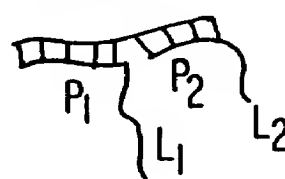


STEP 5

MONITOR
SAMPLE
FOR LABEL

SEPARATE RETRIEVABLE
SUPPORT FROM
TARGET-PROBE
COMPLEX BY
DENATURATION

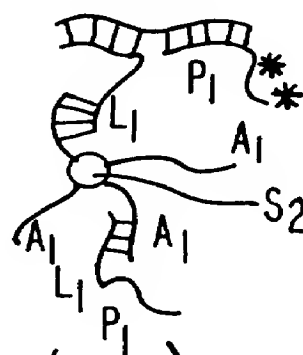
TARGET



STEP 6

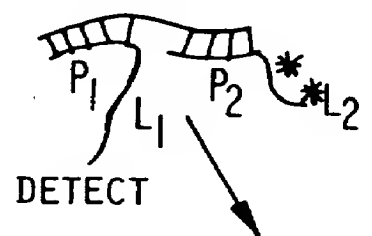
REMOVE
RETRIEVABLE SUPPORT

TARGET



STEP 7

TARGET



DETECT

REPEAT
CYCLE

MONITOR SAMPLE
FOR LABEL

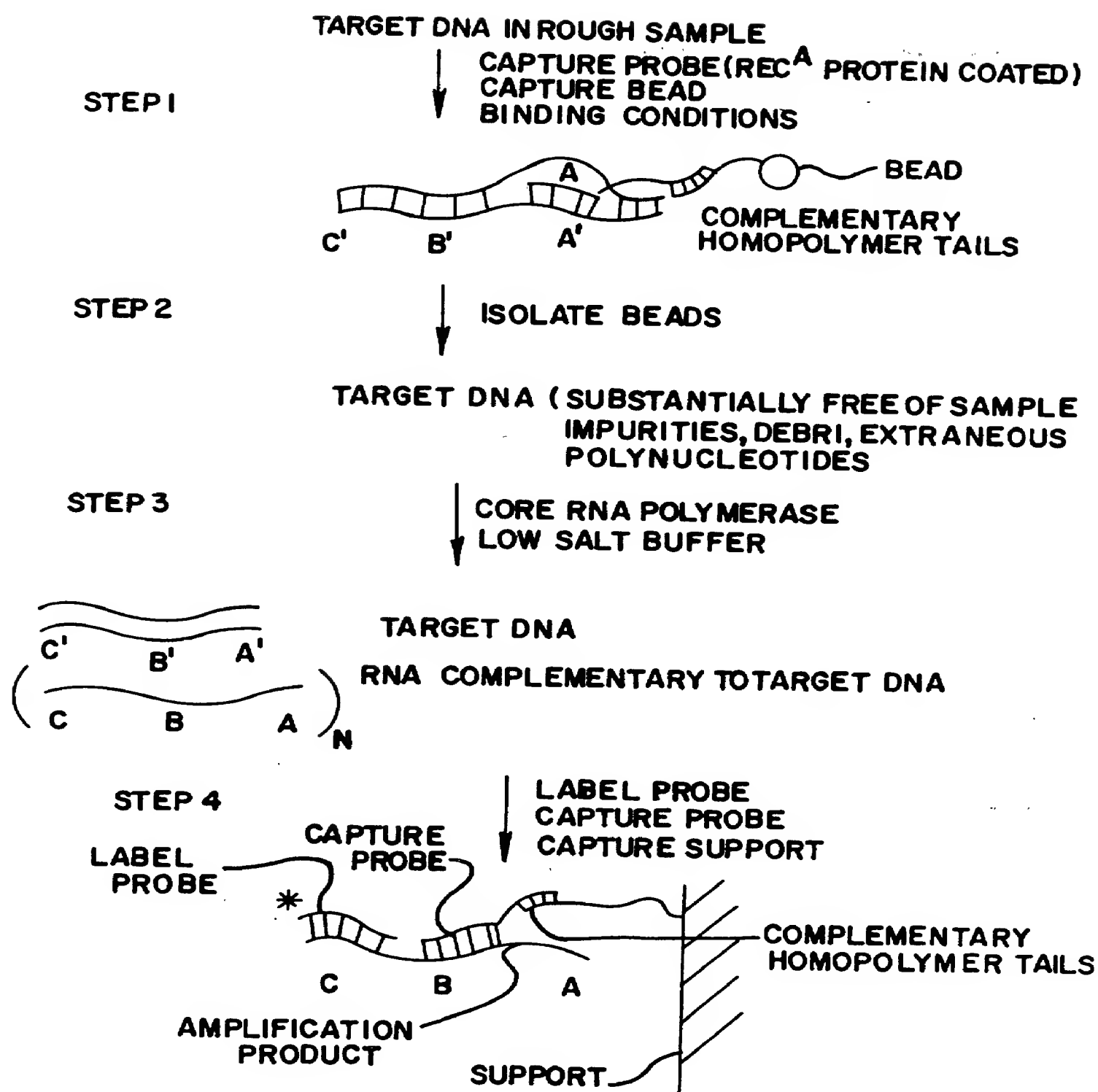
STEP 8

08238080-050394

FIG. 3



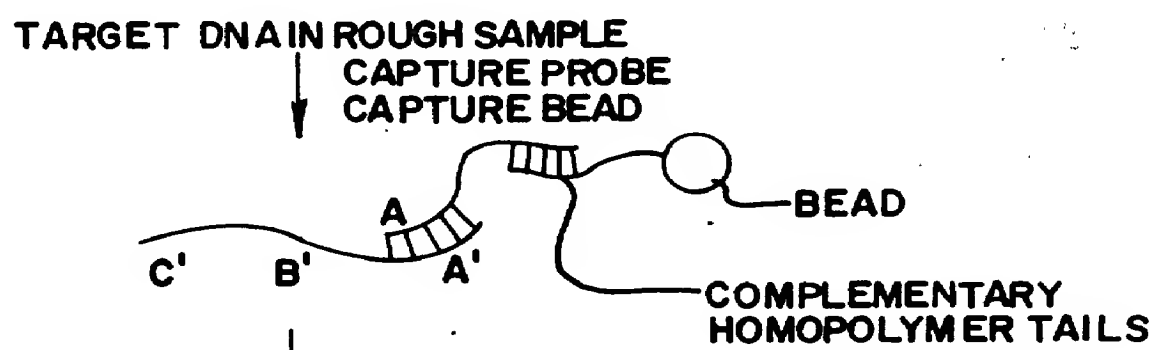
FIG. 4



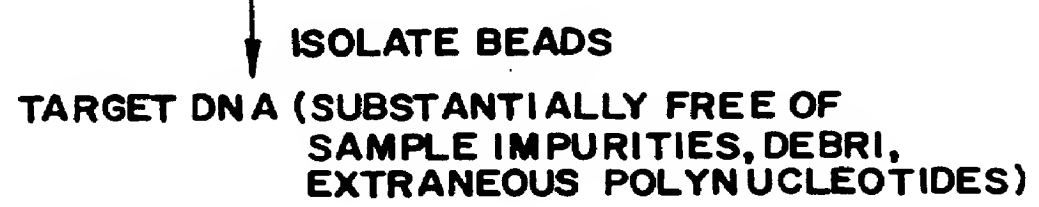
DECEMBER 1980

FIG. 5

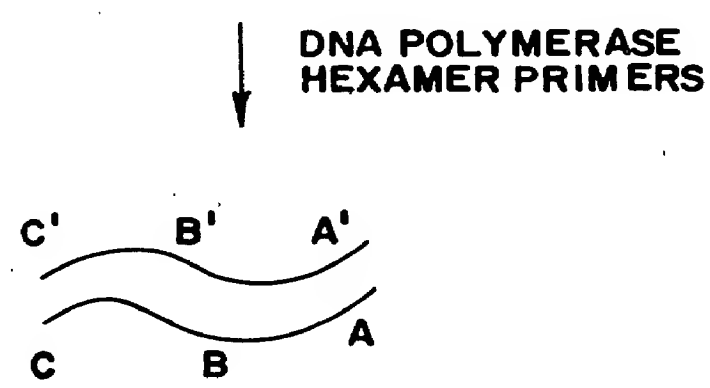
STEP 1



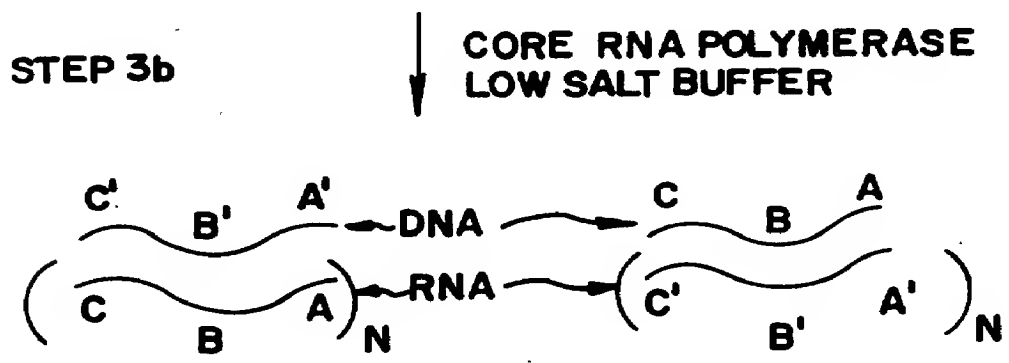
STEP 2



STEP 3a



STEP 3b



STEP 4

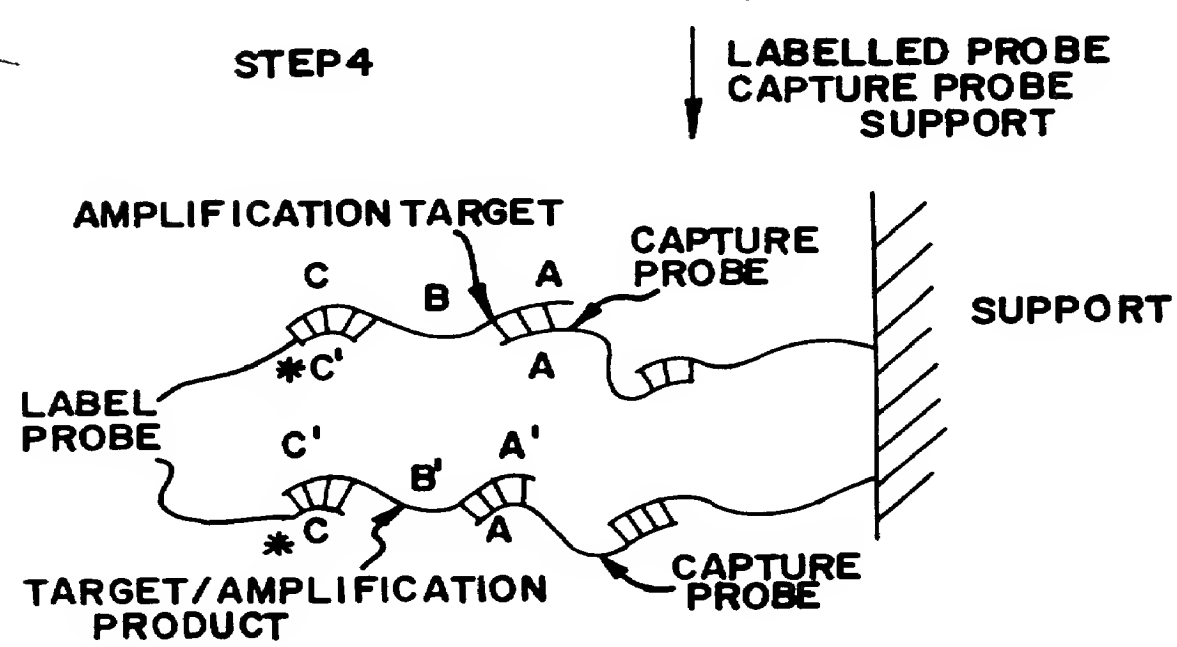
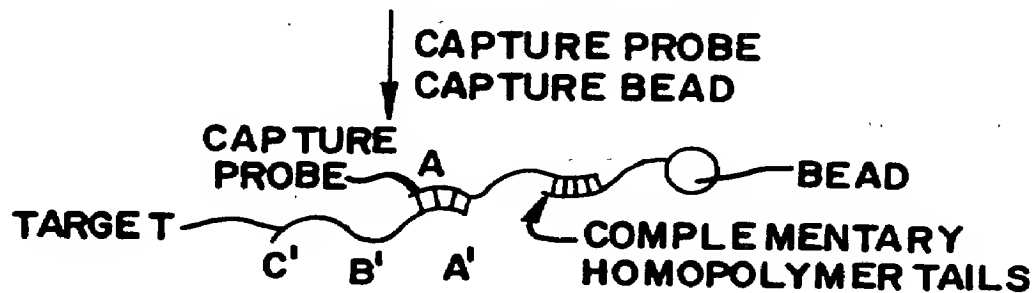


FIG. 6

STEP 1

TARGET DNA IN ROUGH SAMPLE



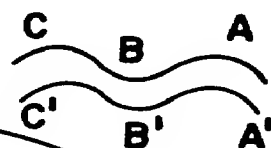
STEP 2

ISOLATE BEAD

TARGET DNA (SUBSTANTIALLY FREE OF SAMPLE IMPURITIES, DEBRI, AND EXTRANEOUS POLYNUCLEOTIDES)

STEP 3a

**DNA POLYMERASE
HEXAMER PRIMERS**



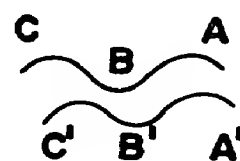
**FIRST COMPLEMENT
TARGET**

STEP 3b

**1. DENATURE
2. DNA POLYMERASE**



**SECOND COMPLEMENT
TARGET**



**FIRST COMPLEMENT
COMPLEMENT TO FIRST**

STEP 4

**DENATURE
LABEL PROBE
CAPTURE SUPPORT
CAPTURE PROBE**

TARGET/AMPLIFICATION PRODUCT

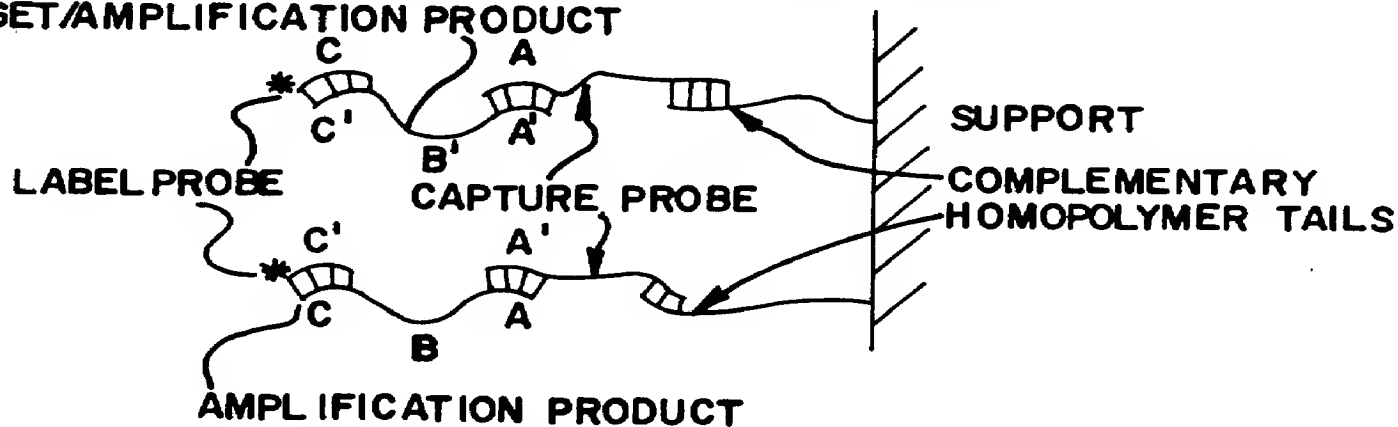
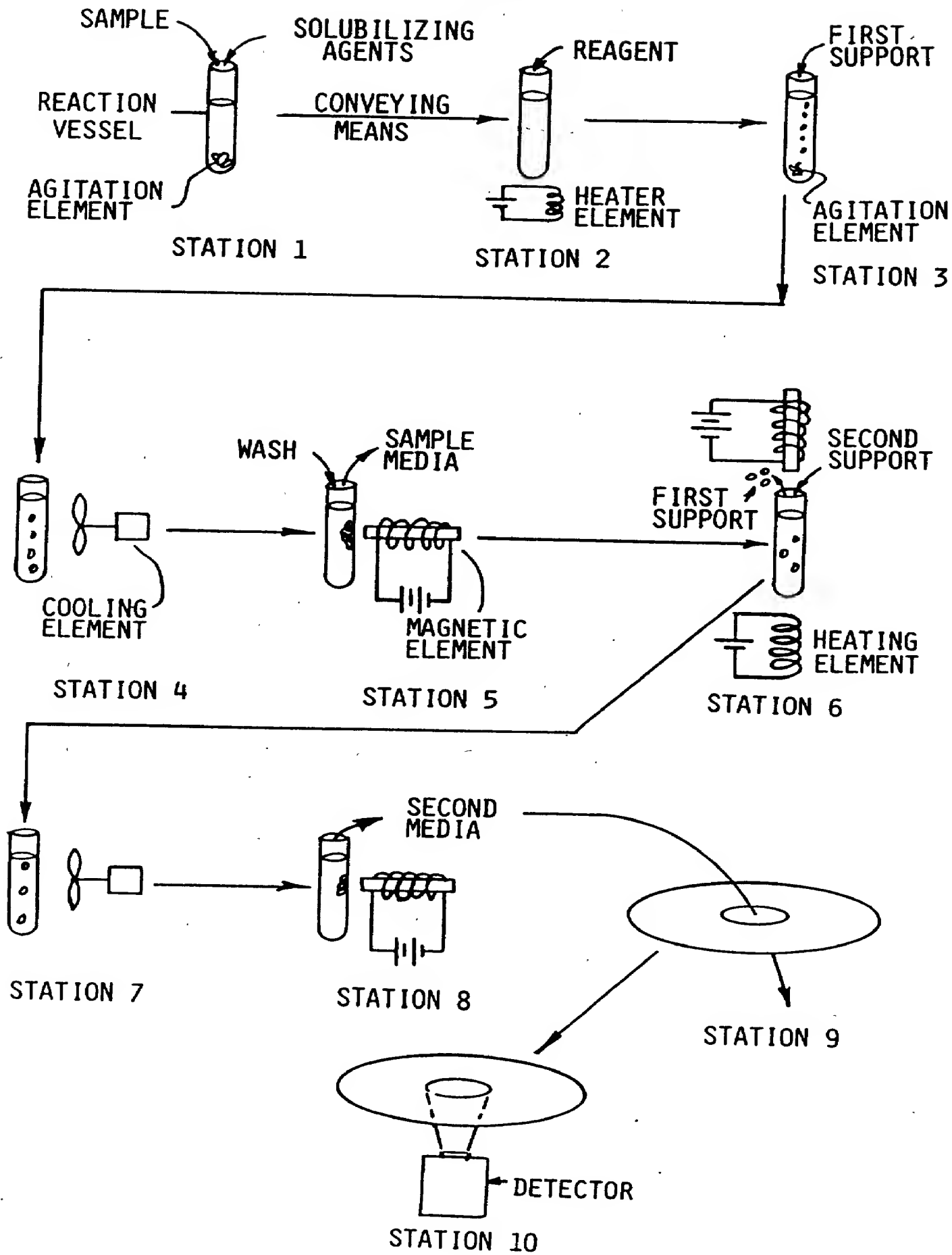


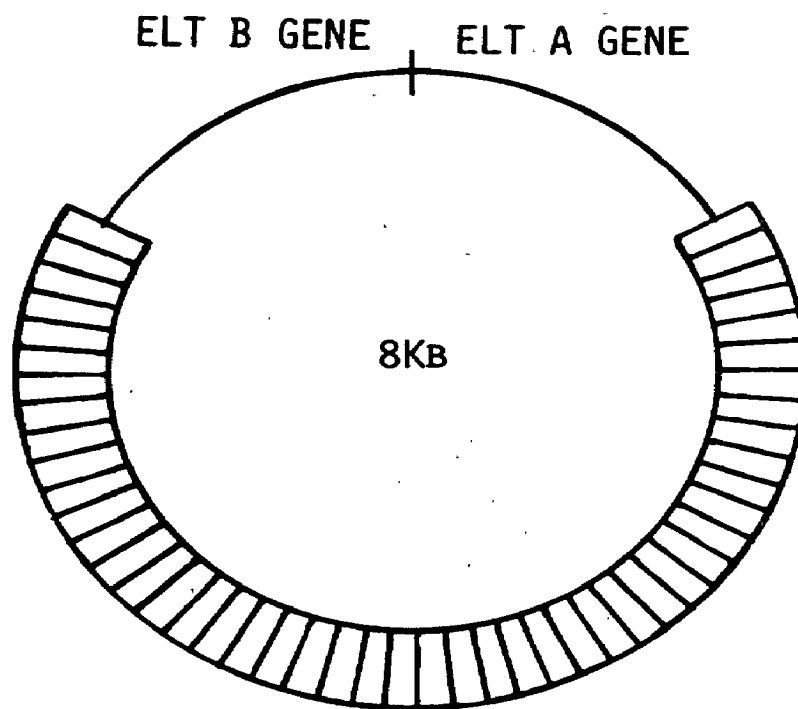
FIG. 7



08233080-050394

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

46E050-0308E290



PBR322- LIKE SEQUENCES

FIG. 8